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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/052,964	01/17/2002	John M. Cioffi	TI-27725.4	3957	
23494	7590 02/03/20	5	EXAM	EXAMINER	
	STRUMENTS INC	HSU, A	HSU, ALPUS		
P O BOX 655474, M/S 3999 DALLAS, TX 75265		ART UNIT	PAPER NUMBER		
DALLAS,	1A 13203		2665		

DATE MAILED: 02/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/052,964	CIOFFI ET AL.
Office Action Summary	Examiner	Art Unit
	Alpus H. Hsu	2665
The MAILING DATE f this communication app Period for Reply	ears n the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed . s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>04 Mar</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro	
Disp sition of Claims		
4) ☐ Claim(s) 40,41 and 53-55 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 41 is/are allowed. 6) ☐ Claim(s) 40 and 53-55 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/17/02, 11/18/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 53-55 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 53, lines 5-6, "a method transmitting data" should read as -- a method of transmitting data -- or -- a method of coordinating data transmissions -- for proper claim language recitation.

Claim 55 recites the limitation "the permissible data transmissions rate" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

- 3. Claim 40 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 and 2 of U.S. Patent No. 5,557,612. Although the conflicting claims are not identical, they are not patentably distinct from each other because by interpreting the communication access request in U.S. Patent No. 5,557,612 as the claimed data request information in the instant application and omitting the further limitation of using a modulation scheme that does not require equalization to decode at the central unit in U.S. Patent No. 5,557,612, it would have been obvious to one of ordinary skill in the art to make U.S. Patent No. 5,557,612 the same invention as claimed in the instant application.
- 4. Claims 53-55 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 and 2 of U.S. Patent No. 5,680,394.

 Although the conflicting claims are not identical, they are not patentably distinct from each other because by providing the periodic downstream and upstream communications in sequential

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order, interpreting the quiet period as the claimed settling period, and setting the permissible data transmissions rates at least ten million bits per second as design choice, it would have been obvious to one of ordinary skill in the art to make U.S. Patent No. 5,680,394 the same invention as claimed in the instant application.

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 6. Claim 41 is allowed.
- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sperlich and Sulzbacher et al. are cited to show the feature of time division multiplex communication system providing full duplex transmission between a central station and substations similar to the claimed invention.

Cioffi and Bingham et al. '667 are cited to show the feature of time division duplexed high speed data transmission utilizing discrete multi-tone transmission scheme similar to the claimed invention.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alpus H. Hsu whose telephone number is (571)272-3146. The

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D. Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

examiner can normally be reached on M-F (5:30-3:00) First Friday Off.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AHH

Alpus H. Hsu Primary Examiner Art Unit 2665